

**Work Order ID 52141**

Thursday, September 17, 2009 8:09:04 AM

Page 1

Item ID: D209-669-013

Accept

Revision ID: B

Item Name: Skidtube LH

Start Date: 9/18/2009 Start Qty: 1.00

Required Date: 10/9/2009 Req'd Qty: 1.00

Reference:

Approvals:

Process Plan:

Date: 09-17

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

D209-669-013

Rev B

DSI 9450

Rev A

100

0.00



DC

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile &amp; type labels per PPP d209-669-013 CHG003

0.00

Sorkolov

110

0.00



Packaging

Packaging

Pick Kit

Memo

0.00

Pc 4/14/08 C

52113

**Work Order ID 52141**

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Page 2

Item ID: D209-669-013

Accept

Revision ID: B

Item Name: Skidtube LH

Start Date: 9/18/2009 Start Qty: 1.00

Required Date: 10/9/2009 Req'd Qty: 1.00

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

120

QC4- 100% Inspect kits for completeness

0.00

2) 502/10/05

QC

Memo

0.00

Quality Control

130

Packaging

0.00

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPPD209-669-013  
Location: \_\_\_\_\_

140

QC21- Final Inspection - Work Order Release

0.00

QC

Memo

0.00

Quality Control

09/10/06

Pl 09-10-6

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Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH

Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D209-669-043RevB		Manufactured	No			110	Each	3.0000	1.0000			
										52113		
Replacement Skidtube												

Warehouse                      Loc Qty                      Loc Code  
Location

Premier

Mezz

3

22797

1

39205

1

39206

1

S D2917-1RevB

Manufactured

No

110

Each

0.0000

2.0000

Saddle LH



52126 9/10/5

S D2918-1RevB

Manufactured

No

110

Each

3.0000

2.0000

Saddle LH



Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST

3

43755

1

51329

2

52131 9/10/5  
54

# Picklist Print

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Thursday, September 17, 2009 8:09:03 AM

Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH


Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN4-51A  Bolt		Purchased	No			110	Each	354.0000	8.0000			

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	354	
110328	2	
111635	102	
112314	100	
112489	100	
112641	50	

m112314

D2570RevB

Manufactured No

110 Each 139.0000 24.0000



Bushing



B52214 PC 9/10/09

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	15	
47246	15	
Main Warehouse		
ST36	124	
50356	124	

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# Picklist Print

Thursday, September 17, 2009 8:09:03 AM

Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH

Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L4 S		Purchased	No			110	Each	8,148.000	24.0000	✓		
Nut												

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	8148
107499	5
108145	4
110450	1
110507	184
111827	5996
112314	1893
15924	0
7690	24
8182	41

M112314

AN5-36A

Purchased

No

110

Each

555.0000

4.0000

✓

Bolt

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	555
109545	11
110467	7
110731	4
112243	20
112314	463
112385	50

M112314

# Picklist Print

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Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH

Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

S AN960JD516 Purchased

No

110

Each

1,097.000

8.0000



M112794

CU

Washer

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

1097

100564

2

106167

6

107534

34

107959

43

108246

46

108672

2

109059

49

109752

22

110363

46

110523

57

111279

43

112082

247

112314

500

MS21042L5

Purchased

No

110

Each

1,279.000

4.0000



✓

Pc 4/10/05 6

Nut

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

1279

110382

10

111636

269

112314

1000

M116436

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# Picklist Print

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Thursday, September 17, 2009 8:09:03 AM

Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH


Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN4-7A  Bolt		Purchased	No			110	Each	201.0000	16.0000			



7112720

09/14/5

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

201

111668

1

112314

50

112385

50

112641

100

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Picklist Print

Thursday, September 17, 2009 8:09:03 AM

Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH

Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN960JD416  Washer		Purchased	No			110	Each	8,313.000	32.0000			

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST	8313
102929	2
105906	4
106277	2
107321	23
107939	114
108161	553
108827	31
109249	69
110523	340
111279	101
111916	2187
112314	4887
16941	0

D2929RevB

Manufactured No

110 Each

15.0000

2.0000



Spacer

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST	15
43376	15



# Picklist Print

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Thursday, September 17, 2009 8:09:03 AM

Work Order ID: 52141

Parent Item: D209-669-013RevB

Parent Item Name: Skidtube LH


Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2930RevB  Spacer		Manufactured	No			110	Each	11.0000	2.0000			

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

11

43378

11

D3405-041RevB  
  
Lug Assembly

Manufactured No

110 Each 10.0000 1.0000

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

10

51254

10

AN4C47A  
  
Bolt

Purchased No

110 Each 222.0000 4.0000

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

222

110847

4

112431

18

112489

100

112641

100

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Shop Packet Print

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# Picklist Print

Thursday, September 17, 2009 8:09:03 AM

Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH

Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
S MS21043-4 		Purchased	No			110	Each	1,397.000	5.0000			
Nut												

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
OFFSHORE		
FG	40	
104603	40	
Main Warehouse		
ST	1357	
111819	35	
112243	22	
112314	1000	
112492	300	

D3405-043RevB

Manufactured No

110

Each

12.0000

1.0000



Lug Assembly

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	12	
46589	1	
46863	1	
51255	10	

M112314

51652

10/9/15 0

# Picklist Print

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Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH

Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3407-041RevE Tow Ring		Manufactured	No			110	Each	35.0000	1.0000			



Warehouse  
Location

Loc Qty

Loc Code

OFFSHORE

FG

3

35780

3

Main Warehouse

ST

1

48356

1

Main Warehouse

ST464

31

51659

31

D3456-1RevA

Manufactured No

110

Each

232.0000

1.0000



Washer

Warehouse  
Location

Loc Qty

Loc Code

OFFSHORE

FG

7

25701

7

Main Warehouse

ST

225

46752

25

51653

200

51659

CU 9/14/09

51653

# Picklist Print

Thursday, September 17, 2009 8:09:03 AM

Work Order ID: 52141



Parent Item: D209-669-013RevB



Parent Item Name: Skidtube LH

Start Date: 9/18/2009

Required Date: 10/9/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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D3417-5RevE

Manufactured

No

110

Each

152.0000

2.0000



51649

09/10/09

Washer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

152

51649

152

# **DART SERVICE INSTRUCTION**

**TO AMEND INSTALLATION INSTRUCTIONS IIN-D209-669 REV. B**

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 32141

## **INSTRUCTIONS:**

1) FOR D209-669-011/-012/-013/-014 SKID TUBES @ CHANGE 003 AND SUBSEQUENT, MODIFY THE FOLLOWING:

- a) REPLACE THE D2968-041 TOW RING WITH THE D3407-041 TOW RING ASSEMBLY.
- b) REPLACE THE D2736-1 AND D2736-3 GHW LUGS WITH THE D3405-041 AND D3405-043 LUG ASSEMBLIES.
- c) AMEND THE PARTS LIST IN SECTION 5.0 OF INSTALLATION INSTRUCTIONS IIN-D209-669 REV. B AS SHOWN ON PAGE 2 OF THIS DSI.

NOTE: ALL INSTALLATION FASTENERS FOR THE ABOVE CHANGES HAVE BEEN UPDATED. SEE THE AMENDED PARTS LIST ON PAGE 2 FOR DETAILS.

A	NEW ISSUE	AJS	09.02.24
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9450	SHEET 1 OF 3
APPROVED		TITLE	SCALE
DE APPR.		SKIDTUBE INSTALLATIONS	NTS
DATE	09.02.24	COPYRIGHT © 2009 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	

# 5.0 PARTS LIST

52141

ITEM	QTY -011	QTY -012	QTY -013	QTY -014	QTY -041	QTY -043	PART NUMBER	DESCRIPTION
	X						D209-669-011	SKIDTUBE INSTALLATION, LH (AH-1W/J)
		X					D209-669-012	SKIDTUBE INSTALLATION, RH (AH-1W/J)
			X				D209-669-013	SKIDTUBE INSTALLATION, LH (AH-1P/F/S)
				X			D209-669-014	SKIDTUBE INSTALLATION, RH (AH-1P/F/S)
	1	1			X		D209-669-041	REPLACEMENT SKIDTUBE (AH-1W/J)
			1	1		X	D209-669-043	REPLACEMENT SKIDTUBE (AH-1P/F/S)

IS:

50	4	4	1	1			D3405-041	LUG ASSEMBLY
51	8	8	4	4			AN4C47A	BOLT
52	16	16	8	8			D2570	BUSHING
53	8	8	4	4			MS21043-4	NUT
54			1	1			D3405-043	LUG ASSEMBLY
60	1	1	1	1			D3407-041	TOW RING ASSEMBLY
61	1	1	1	1			D3456-1	WASHER
62	1	1	1	1			MS21043-4	NUT
63	2	2	2	2			D3417-5	WASHER

WAS:

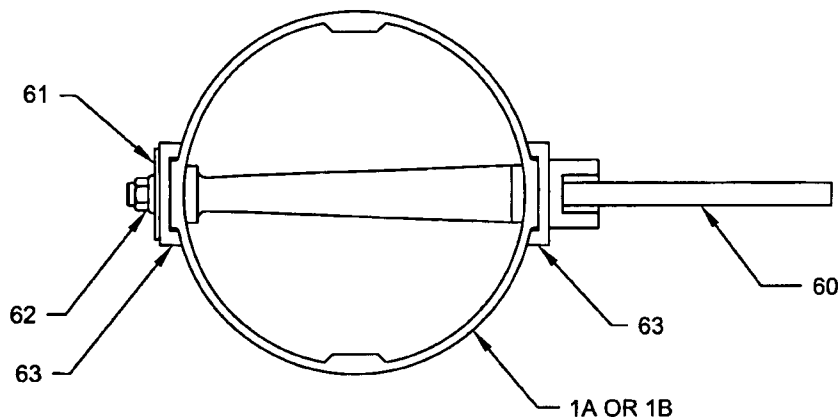
50	4	4	1	1			D2736-1	GHW LUG
51	8	8	4	4			AN4-46A	BOLT
52	16	16	8	8			D2570	BUSHING
53	8	8	4	4			MS21042L4	NUT (OR MS21042-4)
54			1	1			D2736-3	GHW LUG
60	1	1	1	1			D2968-041	TOW RING
61	1	1	1	1			AN970-4	WASHER
62	1	1	1	1			MS21042L4	NUT (OR MS21042-4)

DESIGN	AJS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA
DRAWN	AJS	
CHECKED		DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9450 SHEET 2 OF 3
APPROVED		TITLE SCALE
DE APPR.		SKIDTUBE INSTALLATIONS NTS
DATE	09.02.24	COPYRIGHT © 2009 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE EXPRESS PERMISSION OF DART AEROSPACE LTD.</small>

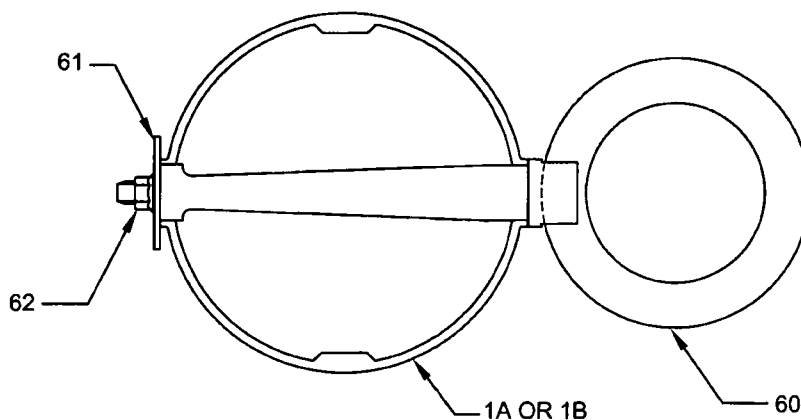
INSTALL TOW RING ASSEMBLY AS SHOWN BELOW (REFER TO SECTION F-F OF IIN-D209-669 REV. B.

52141

**IS:**



**WAS:**



NO PICTORIAL CHANGE REQUIRED FOR GROUND HANDLING WHEEL LUG CHANGES.

DESIGN	AJS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9450	SHEET 3 OF 3
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SKIDTUBE INSTALLATIONS	NTS
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